

BIBLIOGRAPHY OF REPORTS BY U.S. GEOLOGICAL SURVEY AUTHORS ABOUT THE WATER RESOURCES OF WYOMING

Listed by Major Area of Wyoming

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ABOUT THIS BIBLIOGRAPHY

Since the late 19th Century, long before the first U.S. Geological Survey (USGS) office was opened in Wyoming, USGS scientists have been investigating the geology and water resources of the State and publishing their findings. The main product of all USGS work in Wyoming comprises the published reports of those investigations—mostly maps and book reports of the USGS, but also articles in scientific journals, guidebooks, conference proceedings, and publications of Wyoming State agencies.

Criteria for Inclusion.—In this bibliography we have attempted to include all reports that contain information about water in Wyoming and for which at least one author was a USGS employee during the reported investigation. A report published by USGS but written by an author who was not a USGS employee also would be included.

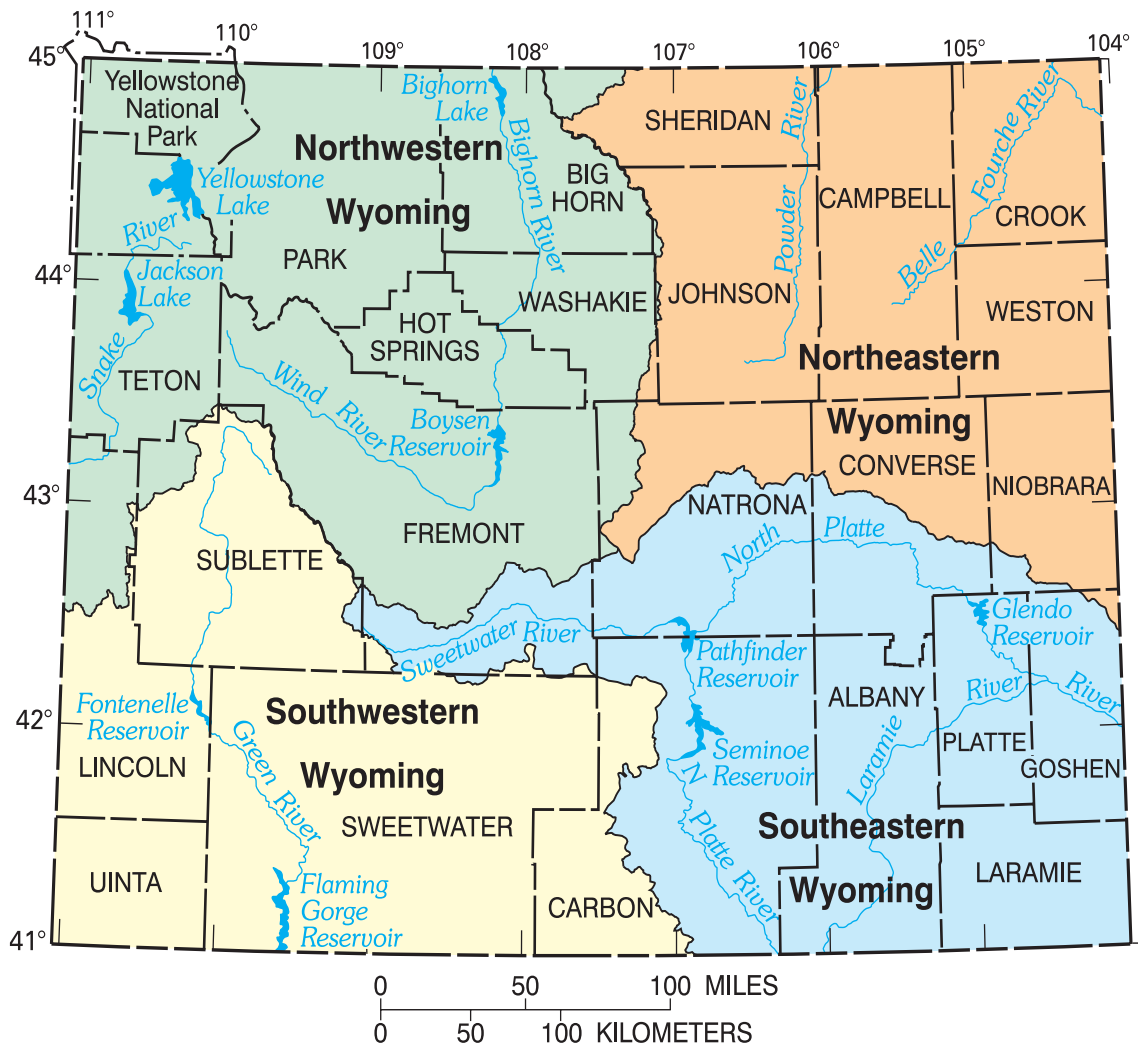
Reports of investigations that are regional (multi-State) in scope may contain new data or conclusions specific to Wyoming, or estimating procedures applicable to Wyoming—a method for estimating the magnitude of floods at ungaged sites, for example. Such reports are included in this bibliography. Reports of regional studies that contain analysis of previously published data for Wyoming but no conclusions specific to Wyoming generally are excluded, with the benefit of the doubt given to inclusion.

Organization.—Except for water-data reports and flood-prone area maps, the reports are listed alphabetically by author for four geographic areas delineated by the boundaries of major river basins, as shown on the index map below. Southeastern Wyoming, for example, is defined as the Wyoming part of the Platte River basin. The other areas are Northeastern Wyoming, Northwestern Wyoming, and Southwestern Wyoming. This organization works well for both surface-water reports and ground-water reports, because generally, the mountain ranges that control the boundaries of the major river basins in Wyoming also control the boundaries of the major aquifer systems. Reports of areas that include all or parts of two of the four major areas are listed under both areas and are cross-referenced. Reports of areas that include all or parts of three or all four major areas are listed under the category, Wyoming Statewide. Thus, users of this bibliography are reminded to include the Statewide listing in their search for reports of a specific area.

For the user's convenience, water-data reports (records of streamflow, water quality, and ground-water levels) are listed separately and chronologically by report type. Flood-prone area maps also are listed separately, by river basin.

Availability of Listed Reports.—Most USGS map and book reports published during the last 20 years or so, as well as many older reports, are available for purchase from USGS Branch of Information Services, Box 25286, Denver Federal Center, Lakewood CO 80225 (1-888-ASK-USGS; online at http://mapping.usgs.gov/esic/to_order.html). Some of the most recently published reports also are available on the World Wide Web; the URLs for those reports are included in this listing. Availability of reprints of journal articles and other outside publications should be determined by contacting the publisher. Many of the reports are available through the Wyoming State Library system (online at <http://wyldweb.state.wy.us/menu.html>).

General information about availability of all reports listed, including loan copies, may be obtained by contacting the USGS Wyoming District Office at 2617 East Lincolnway, Suite B, Cheyenne WY 82001 (307-778-2931). *e-mail:* dc_wy@usgs.gov



INDEX MAP OF WYOMING

Reports in this bibliography are listed by geographic area as indicated by shading on the map.

SOUTHEASTERN WYOMING

[Platte River basin]

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WYOMING STATEWIDE

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WATER-RESOURCES DATA

Nearly all water-resources data (also called "records") collected by the U.S. Geological Survey (USGS) for hydrologic monitoring in Wyoming are published in the reports listed below. USGS began collecting "hydrographic" data in 1888 as part of its Irrigation Survey. Typically, data are collected continuously or intermittently at a station or well for a period of a few years to many decades. The stations and observation wells are referred to collectively as hydrologic-data networks. The reports also contain results of streamflow measurements and water-quality sampling at miscellaneous sites. Some data collected during short-term hydrologic investigations of specific areas, such as a county, however, are not included in the data reports listed below. Such data typically are published separately in open-file reports or are included in the interpretive reports of the investigations (see previous listings by geographic area).

Results of the earliest hydrographic work were published in the series, *Annual Reports of the United States Geological Survey to the Secretary of the Interior* (and in two USGS Bulletins). After creation of the Water-Supply Paper series in 1896, records of surface-water quantity and quality through water year 1970 were published in that series. Wyoming records are included in the volumes for the following areas: Part 6, Missouri River Basin; Part 9, Colorado River Basin (Green River Basin in Wyoming); Part 10, The Great Basin (Bear River Basin in Wyoming); and Part 13, Snake River Basin.

Two sets of "compilation" reports also were published in Water-Supply Papers. These reports summarize all monthly and yearly streamflow and reservoir data collected by USGS or furnished by other agencies. The first set includes the records collected through water year 1950; the second, the records collected during water years 1951-60.

Records of water levels and artesian pressures in observation wells were published in Water-Supply Papers annually for 1940-55 and at multiple-year intervals for 1956-60, 1961-65, 1966-70, and 1971-74. Wyoming records are included in the volumes for Part 5, Northwestern States (not the same area as surface-water Part 5)

Observation-well records for 1940-71 and 1972-73 also were compiled by USGS and published in reports of the Wyoming Water Planning Program (Wyoming State Engineer's Office). Records for the observation-well network for 1974-77 were published annually in USGS open-file reports. Records for 1978-95 were published in open-file reports at intervals of approximately 2 years; these reports include water-level hydrographs for the most recent 10 years.

In 1961 USGS initiated an annual series of unnumbered water-resources data reports for each State. Through water year 1974 the series is untitled, but the reports informally are called "annual data reports." Reports for water years 1961-63 contain only surface-water records; records of surface-water quality have been included since 1964. For water years 1964-74, surface-water records and water-quality records were published in separate volumes (parts 1 and 2), each covering the entire State. The records for water years 1961-65 and 1966-70 also were published in Water-Supply Papers; after 1970 the use of the Water-Supply Paper series for this purpose was discontinued.

Beginning with the 1975 report, the annual series is titled "Water-Data Reports," and the reports are numbered. Surface-water and surface-water-quality records for water years 1976-81 were combined, but published in two volumes—volume 1, Missouri River basin; and volume 2, the rest of the State. Reflecting a steadily decreasing number of stations, all data for the entire State for water years 1982-96 were published in a single volume. Selected observation-well data (from the open-file reports described above) were included in the reports for water years 1975-96. Beginning with the report for water year 1997, all observation-well-network data, including water-level hydrographs and water-quality data, are published in a separate volume (part 2) of the annual Water-Data Report. Publication of ground-water data biennially in open-file reports was discontinued.

Streamflow Data (Earliest USGS Reports, Through 1897)

- Powell, J.W., 1891, Hydrography, *in* Powell, J.W., Eleventh annual report of the United States Geological Survey to the Secretary of the Interior, 1889-90, Part II—Irrigation: U.S. Geological Survey, p. 1-110. [*Lists discharge measurements of Yellowstone River at outlet of Yellowstone Lake (p. 86).*]
- Newell, F.H., 1891, Hydrography of the arid regions, *in* Powell, J.W., Twelfth annual report of the United States Geological Survey to the Secretary of the Interior, 1890-91, Part II—Irrigation: U.S. Geological Survey, p. 213-361. [*Describes the first gaging station in Wyoming, Laramie River at Woods Landing, installed by the Wyoming State Engineer, Dec. 1888 (p. 239); however, see Thirteenth Annual Report below.*]
- Newell, F.H., 1893, Water supply for irrigation, *in* Powell, J.W., Thirteenth annual report of the United States Geological Survey to the Secretary of the Interior, 1891-92, Part III—Irrigation: U.S. Geological Survey, p. 1-99. [*Includes hydrographs of daily stage of North Platte River for irrigation seasons, 1887-90 (p. 83).*]
- Newell, F.H., 1894, Results of stream measurements, *in* Powell, J.W., Fourteenth annual report of the United States Geological Survey to the Secretary of the Interior, 1892-93, Part II—Accompanying papers: U.S. Geological Survey, p. 89-155.
- Newell, F.H., 1895, Report of progress of the division of hydrography for the calendar years 1893 and 1894: U.S. Geological Survey Bulletin 131, 126 p.
- Newell, F.H., 1896, Report of progress of the division of hydrography for the calendar year 1895: U.S. Geological Survey Bulletin 140, 356 p.
- Davis, A.P., 1897, Report of progress of stream measurements for the calendar year 1896, *in* Walcott, C.D., Eighteenth annual report of the United States Geological Survey to the Secretary of the Interior, 1896-97, Part IV—Hydrography: U.S. Geological Survey, p. 1-418.

Streamflow Data (USGS Water-Supply Papers)

- U.S. Geological Survey, compiler, 1959, Compilation of records of surface waters of the United States through September 1950, Part 6-A. Missouri River basin above Sioux City, Iowa: U.S. Geological Survey Water-Supply Paper 1309, 672 p.
- U.S. Geological Survey, compiler, 1958, Compilation of records of surface waters of the United States through September 1950, Part 6-B. Missouri River basin below Sioux City, Iowa: U.S. Geological Survey Water-Supply Paper 1310, 619 p.
- U.S. Geological Survey, compiler, 1954, Compilation of records of surface waters of the United States through September 1950, Part 9. Colorado River basin: U.S. Geological Survey Water-Supply Paper 1313, 749 p.
- U.S. Geological Survey, compiler, 1960, Compilation of records of surface waters of the United States through September 1950, Part 10. The Great Basin: U.S. Geological Survey Water-Supply Paper 1314, 485 p.
- U.S. Geological Survey, compiler, 1956, Compilation of records of surface waters of the United States through September 1950, Part 13. Snake River basin: U.S. Geological Survey Water-Supply Paper 1317, 566 p.
- U.S. Geological Survey, compiler, 1964a, Compilation of records of surface waters of the United States, October 1950 to September 1960, Part 6-A. Missouri River basin above Sioux City, Iowa: U.S. Geological Survey Water-Supply Paper 1729, 507 p.
- U.S. Geological Survey, compiler, 1964b, Compilation of records of surface waters of the United States, October 1950 to September 1960, Part 6-B. Missouri River basin below Sioux City, Iowa: U.S. Geological Survey Water-Supply Paper 1730, 514 p.
- U.S. Geological Survey, compiler, 1964c, Compilation of records of surface waters of the United States, October 1950 to September 1960, Part 9. Colorado River basin: U.S. Geological Survey Water-Supply Paper 1733, 586 p.

U.S. Geological Survey, compiler, 1963a, Compilation of records of surface waters of the United States, October 1950 to September 1960, Part 10. The Great Basin: U.S. Geological Survey Water-Supply Paper 1734, 318 p.

U.S. Geological Survey, compiler, 1963b, Compilation of records of surface waters of the United States, October 1950 to September 1960, Part 13. Snake River basin: U.S. Geological Survey Water-Supply Paper 1737, 282 p.

Water-Supply Papers containing annual streamflow data, 1896-1960

[Drainage-basin part: 6, Missouri River basin; 9, Colorado River basin; 10, The Great Basin; 13, Snake River basin; W, Water-Supply Paper]

Year	Drainage-basin part				Year	Drainage-basin part			
	6	9	10	13		6	9	10	13
1896	<i>W11</i>	<i>W11</i>	[no stas.]	[no stas.]	1930	<i>W701</i>	<i>W704</i>	<i>W705</i>	<i>W708</i>
1897	<i>W15</i>	<i>W16</i>	[no stas.]	[no stas.]	1931	<i>W716</i>	<i>W719</i>	<i>W720</i>	<i>W723</i>
1898	<i>W27</i>	<i>W28</i>	[no stas.]	[no stas.]	1932	<i>W731</i>	<i>W734</i>	<i>W735</i>	<i>W738</i>
1899	<i>W37</i>	<i>W37</i>	[no stas.]	<i>W38</i>	1933	<i>W746</i>	<i>W749</i>	<i>W750</i>	<i>W753</i>
1900	<i>W49</i>	<i>W50</i>	[no stas.]	[no stas.]	1934	<i>W761</i>	<i>W764</i>	<i>W765</i>	<i>W768</i>
1901	<i>W66</i>	<i>W66</i>	[no stas.]	[no stas.]	1935	<i>W786</i>	<i>W789</i>	<i>W790</i>	<i>W793</i>
1902	<i>W84</i>	<i>W85</i>	[no stas.]	[no stas.]	1936	<i>W806</i>	<i>W809</i>	<i>W810</i>	<i>W813</i>
1903	<i>W99</i>	<i>W100</i>	[no stas.]	[no stas.]	1937	<i>W826</i>	<i>W829</i>	<i>W830</i>	<i>W833</i>
1904	<i>W130 W131</i>	<i>W133</i>	[no stas.]	<i>W135</i>	1938	<i>W856</i>	<i>W859</i>	<i>W860</i>	<i>W863</i>
1905	<i>W172</i>	<i>W175</i>	[no stas.]	<i>W178</i>	1939	<i>W876</i>	<i>W879</i>	<i>W880</i>	<i>W883</i>
1906	<i>W208</i>	<i>W211</i>	[no stas.]	W214	1940	<i>W896</i>	<i>W899</i>	<i>W900</i>	<i>W903</i>
1907, 08	<i>W246</i>	[no stas.]	[no stas.]	W252	1941	<i>W926</i>	<i>W929</i>	<i>W930</i>	<i>W933</i>
1909	<i>W266</i>	[no stas.]	[no stas.]	W272	1942	<i>W956</i>	<i>W959</i>	<i>W960</i>	<i>W963</i>
1910	<i>W286</i>	<i>W289</i>	[no stas.]	W292	1943	<i>W976</i>	<i>W979</i>	<i>W980</i>	<i>W983</i>
1911	<i>W306</i>	<i>W309</i>	[no stas.]	W312	1944	<i>W1006</i>	<i>W1009</i>	<i>W1010</i>	<i>W1013</i>
1912	<i>W326</i>	<i>W329</i>	[no stas.]	W332	1945	<i>W1036</i>	<i>W1039</i>	<i>W1040</i>	<i>W1043</i>
1913	<i>W356</i>	<i>W359</i>	[no stas.]	W362	1946	<i>W1056</i>	<i>W1059</i>	<i>W1060</i>	<i>W1063</i>
1914	<i>W386</i>	<i>W389</i>	W390	W393	1947	<i>W1086</i>	<i>W1089</i>	<i>W1090</i>	<i>W1093</i>
1915	<i>W406</i>	<i>W409</i>	W410	W413	1948	<i>W1116</i>	<i>W1119</i>	<i>W1120</i>	<i>W1123</i>
1916	<i>W436</i>	<i>W439</i>	W440	W443	1949	<i>W1146</i>	<i>W1149</i>	<i>W1150</i>	<i>W1153</i>
1917	<i>W456</i>	<i>W459</i>	W460	W463	1950	<i>W1176</i>	<i>W1179</i>	<i>W1180</i>	<i>W1183</i>
1918	<i>W476</i>	<i>W479</i>	W480	W483	1951	<i>W1209 W1210</i>	<i>W1213</i>	<i>W1214</i>	<i>W1217</i>
1919, 20	<i>W506</i>	<i>W509</i>	W510	W513	1952	<i>W1239 W1240</i>	<i>W1243</i>	<i>W1244</i>	<i>W1247</i>
1921	<i>W526</i>	<i>W529</i>	W530	W533	1953	<i>W1279 W1280</i>	<i>W1283</i>	<i>W1284</i>	<i>W1287</i>
1922	<i>W546</i>	<i>W549</i>	W550	W553	1954	<i>W1339 W1340</i>	<i>W1343</i>	<i>W1344</i>	<i>W1347</i>
1923	<i>W566</i>	<i>W569</i>	W570	W573	1955	<i>W1389 W1390</i>	<i>W1393</i>	<i>W1394</i>	<i>W1397</i>
1924	<i>W586</i>	<i>W589</i>	W590	W593	1956	<i>W1439 W1440</i>	<i>W1443</i>	<i>W1444</i>	<i>W1447</i>
1925	<i>W606</i>	<i>W609</i>	W610	W613	1957	<i>W1509 W1510</i>	<i>W1513</i>	<i>W1514</i>	<i>W1517</i>
1926	<i>W626</i>	<i>W629</i>	W630	W633	1958	<i>W1559 W1560</i>	<i>W1563</i>	<i>W1564</i>	<i>W1567</i>
1927	<i>W646</i>	<i>W649</i>	W650	W653	1959	<i>W1629 W1630</i>	<i>W1633</i>	<i>W1634</i>	<i>W1637</i>
1928	<i>W666</i>	<i>W669</i>	W670	W673	1960	<i>W1709 W1710</i>	<i>W1713</i>	<i>W1714</i>	<i>W1717</i>
1929	<i>W686</i>	<i>W689</i>	W690	W693					

U.S. Geological Survey, compiler, 1969, Surface water supply of the United States, 1961-65, Part 6. Missouri River basin; Volume 1. Missouri River basin above Williston, North Dakota: U.S. Geological Survey Water-Supply Paper 1916, 800 p.

U.S. Geological Survey, compiler, 1970a, Surface water supply of the United States, 1961-65, Part 9. Colorado River basin; Volume 1. Colorado River basin above Green River: U.S. Geological Survey Water-Supply Paper 1924, 488 p.

- U.S. Geological Survey, compiler, 1970b, Surface water supply of the United States, 1961-65, Part 10. The Great Basin: U.S. Geological Survey Water-Supply Paper 1927, 978 p.
- U.S. Geological Survey, compiler, 1971, Surface water supply of the United States, 1961-65, Part 13. Snake River basin: U.S. Geological Survey Water-Supply Paper 1934, 776 p.
- U.S. Geological Survey, compiler, 1974a, Surface water supply of the United States, 1966-70; Part 6. Missouri River basin; Volume 1. Missouri River basin above Williston, North Dakota: U.S. Geological Survey Water-Supply Paper 2116, 835 p.
- U.S. Geological Survey, compiler, 1973, Surface water supply of the United States, 1966-70; Part 9. Colorado River basin; Volume 1. Colorado River basin above Green River: U.S. Geological Survey Water-Supply Paper 2124, 543 p.
- U.S. Geological Survey, compiler, 1974b, Surface water supply of the United States, 1966-70; Part 10. The Great Basin: U.S. Geological Survey Water-Supply Paper 2127, 1143 p.
- U.S. Geological Survey, compiler, 1974c, Surface water supply of the United States, 1966-70; Part 13. Snake River basin: U.S. Geological Survey Water-Supply Paper 2134, 821 p.

Surface-Water-Quality Data (USGS Water-Supply Papers)

[Part 6, Missouri River basin; Parts 9, Colorado River basin; Part 10, The Great Basin; Part 13, Snake River basin]

Parts 5 and 6: **W 1050** (1946); **W 1102** (1947); **W 1132** (1948); **W 1162** (1949); **W 1187** (1950); **W 1198** (1951); **W 1251** (1952); **W 1291** (1953); **W 1351** (1954); **W 1401** (1955); **W 1451** (1956); **W 1521** (1957); **W 1572** (1958); **W 1643** (1959); **W 1743** (1960).

Parts 9-14: **W 1200** (1951); **W 1253** (1952); **W 1293** (1953); **W 1353** (1954); **W 1403** (1955); **W 1453** (1956); **W 1523** (1957); **W 1574** (1958); **W 1645** (1959); **W 1745** (1960).

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- U.S. Geological Survey, compiler, 1967, Quality of surface waters of the United States, 1961; Parts 9-14. Colorado River basin to Pacific slope basins in Oregon and lower Columbia River basin: U.S. Geological Survey Water-Supply Paper 1885, 677 p.
- U.S. Geological Survey, compiler, 1964a, Quality of surface waters of the United States, 1962; Parts 5 and 6. Hudson Bay and upper Mississippi River basins, and Missouri River basin: U.S. Geological Survey Water-Supply Paper 1943, 413 p.
- U.S. Geological Survey, compiler, 1964b, Quality of surface waters of the United States, 1962; Parts 9-14. Colorado River basin to Pacific slope basins in Oregon and lower Columbia River basin: U.S. Geological Survey Water-Supply Paper 1945, 691 p.
- U.S. Geological Survey, compiler, 1966a, Quality of surface waters of the United States, 1963; Parts 5 and 6. Hudson Bay and upper Mississippi River basins, and Missouri River basin: U.S. Geological Survey Water-Supply Paper 1949, 411 p.
- U.S. Geological Survey, compiler, 1966b, Quality of surface waters of the United States, 1963; Parts 9-14. Colorado River basin to Pacific slope basins in Oregon and lower Columbia River basin: U.S. Geological Survey Water-Supply Paper 1951, 781 p.
- U.S. Geological Survey, compiler, 1969a, Quality of surface waters of the United States, 1964; Parts 5 and 6. Hudson Bay and upper Mississippi River basins, and Missouri River basin: U.S. Geological Survey Water-Supply Paper 1956, 462 p.
- U.S. Geological Survey, compiler, 1969b, Quality of surface waters of the United States, 1964; Parts 9-11. Colorado River basin to Pacific slope basins in California: U.S. Geological Survey Water-Supply Paper 1958, 615 p.

- U.S. Geological Survey, compiler, 1970a, Quality of surface waters of the United States, 1965; Parts 5 and 6. Hudson Bay and upper Mississippi River basins, and Missouri River basin: U.S. Geological Survey Water-Supply Paper 1963, 548 p.
- U.S. Geological Survey, compiler, 1970b, Quality of surface waters of the United States, 1965; Parts 9-11. Colorado River basin to Pacific slope basins in California: U.S. Geological Survey Water-Supply Paper 1965, 678 p.
- U.S. Geological Survey, compiler, 1970c, Quality of surface waters of the United States, 1965; Parts 12-16. Pacific slope basins in Washington and upper Columbia River basin to Hawaii and other Pacific areas: U.S. Geological Survey Water-Supply Paper 1966, 462 p.
- U.S. Geological Survey, compiler, 1971a, Quality of surface waters of the United States, 1966; Parts 5 and 6. Hudson Bay and upper Mississippi River basins, and Missouri River basin: U.S. Geological Survey Water-Supply Paper 1993, 666 p.
- U.S. Geological Survey, compiler, 1971b, Quality of surface waters of the United States, 1966; Parts 9-11. Colorado River basin to Pacific slope basins in California: U.S. Geological Survey Water-Supply Paper 1995, 726 p.
- U.S. Geological Survey, compiler, 1971c, Quality of surface waters of the United States, 1966; Parts 12-16. North Pacific slope basins, Alaska, and Hawaii and other Pacific areas: U.S. Geological Survey Water-Supply Paper 1996, 433 p.
- U.S. Geological Survey, compiler, 1971d, Quality of surface waters of the United States, 1967; Parts 5 and 6. Hudson Bay and upper Mississippi River basins, and Missouri River basin: U.S. Geological Survey Water-Supply Paper 2013, 585 p.
- U.S. Geological Survey, compiler, 1972a, Quality of surface waters of the United States, 1967; Parts 9-11. Colorado River basin to Pacific slope basins in California: U.S. Geological Survey Water-Supply Paper 2015, 702 p.
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- U.S. Geological Survey, compiler, 1973a, Quality of surface waters of the United States, 1968; Part 6. Missouri River basin: U.S. Geological Survey Water-Supply Paper 2095, 394 p.
- U.S. Geological Survey, compiler, 1973b, Quality of surface waters of the United States, 1968; Parts 9 and 10. Colorado River basin and the Great Basin: U.S. Geological Survey Water-Supply Paper 2098, 296 p.
- U.S. Geological Survey, compiler, 1973c, Quality of surface waters of the United States, 1968; Parts 12-16. North Pacific slope basins, Alaska, Hawaii, and other Pacific areas: U.S. Geological Survey Water-Supply Paper 2100, 464 p.
- U.S. Geological Survey, compiler, 1974a, Quality of surface waters of the United States, 1969; Part 6. Missouri River basin: U.S. Geological Survey Water-Supply Paper 2145, 441 p.
- U.S. Geological Survey, compiler, 1974b, Quality of surface waters of the United States, 1969; Parts 9 and 10. Colorado River basin and the Great Basin: U.S. Geological Survey Water-Supply Paper 2148, 348 p.
- U.S. Geological Survey, compiler, 1974c, Quality of surface waters of the United States, 1969; Parts 12-16. North Pacific slope basins, Alaska, Hawaii, and other Pacific areas: U.S. Geological Survey Water-Supply Paper 2150, 480 p.
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- U.S. Geological Survey, compiler, 1976a, Quality of surface waters of the United States, 1970; Parts 9 and 10. Colorado River basin and the Great Basin: U.S. Geological Survey Water-Supply Paper 2158, 371 p.

U.S. Geological Survey, compiler, 1976b, Quality of surface waters of the United States, 1970; Parts 12-16. North Pacific slope basins, Alaska, Hawaii, and other Pacific areas: U.S. Geological Survey Water-Supply Paper 2160, 501 p.

Ground-Water Data (USGS Water-Supply Papers)

Robinson, T.W., 1941, Wyoming, *in* Meinzer, O.E., Wenzel, L.K., and others, Water levels and artesian pressure in observation wells in the United States in 1940; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 910, p. 180-194.

Foley, F.C., 1942, Wyoming, *in* Meinzer, O.E., Wenzel, L.K., and others, Water levels and artesian pressure in observation wells in the United States in 1941; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 940, p. 152-172.

Morgan, A.M., and Graham, J.B., 1944, Wyoming, *in* Meinzer, O.E., Wenzel, L.K., and others, Water levels and artesian pressure in observation wells in the United States in 1942; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 948, p. 154-194.

Morgan, A.M., 1946, Wyoming, *in* Meinzer, O.E., Wenzel, L.K., and others, Water levels and artesian pressure in observation wells in the United States in 1943; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 990, p. 246-279.

Warner, D.A., and Morgan, A.M., 1947, Wyoming, *in* Sayre, A.N., and others, Water levels and artesian pressure in observation wells in the United States in 1944; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 1020, p. 172-195.

Warner, D.A., 1948, Wyoming, *in* U.S. Geological Survey, compiler, Water levels and artesian pressure in observation wells in the United States in 1945; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 1027, p. 223-244.

U.S. Geological Survey, compiler, Water levels and artesian pressure in observation wells in the United States in 1946; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 1075.

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Visher, Frank, 1951, Wyoming, *in* U.S. Geological Survey, compiler, Water levels and artesian pressure in observation wells in the United States in 1948; Part 5. Northwestern States: U.S. Geological Survey Water-

Littleton, R.T., 1952a, Wyoming, *in* U.S. Geological Survey, compiler, Water levels and artesian pressure in observation wells in the United States in 1949; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 1160, p. 159-170.

Littleton, R.T., 1952b, Wyoming, *in* U.S. Geological Survey, compiler, Water levels and artesian pressure in observation wells in the United States in 1950; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 1169, p. 131-139.

Babcock, H.M., 1954, Wyoming, *in* U.S. Geological Survey, compiler, Water levels and artesian pressures in observation wells in the United States in 1951; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 1195, p. 140-159.

Rapp, J.R., 1955, Wyoming, *in* U.S. Geological Survey, compiler, Water levels and artesian pressures in observation wells in the United States in 1952; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 1225, p. 143-162.

Babcock, H.M., 1956, Wyoming, *in* U.S. Geological Survey, compiler, Water levels and artesian pressures in observation wells in the United States, 1953; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 1269, p. 155-172.

- Morris, D.A., 1956, Wyoming, *in* U.S. Geological Survey, compiler, Water levels and artesian pressures in observation wells in the United States, 1954; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 1325, p. 150-167.
- Babcock, H.M., 1957, Wyoming, *in* U.S. Geological Survey, compiler, Water levels and artesian pressures in observation wells in the United States, 1955; Part 5. Northwestern States: U.S. Geological Survey Water-Supply Paper 1408, p. 149-165.
- McGreevy, L.J., 1963, Wyoming, *in* U.S. Geological Survey, compiler, Ground-water levels in the United States, 1956-60, Northwestern States: U.S. Geological Survey Water-Supply Paper 1760, p. 202-222.
- U.S. Geological Survey, 1968, Wyoming, *in* U.S. Geological Survey, compiler, Ground-water levels in the United States, 1961-65, Northwestern States: U.S. Geological Survey Water-Supply Paper 1845, p. 178-199.
- U.S. Geological Survey, 1972, Wyoming, *in* U.S. Geological Survey, compiler, Ground-water levels in the United States, 1966-70, Northwestern States: U.S. Geological Survey Water-Supply Paper 1980, p. 207-228.
- U.S. Geological Survey, 1977, Wyoming, *in* U.S. Geological Survey, compiler, Ground-water levels in the United States, 1971-74, Northwestern States: U.S. Geological Survey Water-Supply Paper 2161, p. 141-153.

Ground-Water Data (State Reports & USGS Open-File Reports)

(Also listed under Statewide Reports)

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USGS FLOOD-PRONE AREA MAPS

The 89th United States Congress (1966) recommended preparation of flood-prone area maps to quickly identify areas of probable flood hazard. USGS was assigned primary responsibility for delineating on topographic quadrangles (scale 1:24,000) approximate areas that would be inundated by a 100-year flood. The Federal Insurance Administration, U.S. Department of Housing and Urban Development, used the USGS maps to authorize flood insurance in communities waiting for detailed flood-hazard surveys. During 1972-77, and 1981-82, USGS personnel delineated flood-prone areas for Wyoming streams on parts of 234 quadrangles. The general method and the equation used to estimate the depths of 100-year floods in Wyoming streams are described in a report by **Burkham (1978)**, listed under **Wyoming Statewide** in this bibliography. The maps are reproduced in-house for free distribution upon request; however, users of these maps are cautioned that the maps are to be used only for general guidance about possible flood hazards. Official flood-insurance maps are available from the **Federal Emergency Management Agency** (online at <http://www.fema.gov/MSC/hardcopy.htm>). The mapped quadrangles for Wyoming are listed below in downstream order by major geographic area.

SOUTHEASTERN WYOMING

<i>North Platte River</i>	<i>North Platte River—Continued</i>	<i>Laramie River</i>
Saratoga	Orin	Laramie SW
Alcova	Glendo	Laramie
Alcova SE	Sibley Peak	Hightower
Clarkson Hill	Cassa	Wheatland
Bessemer Mountain	Herman Ranch	Dwyer
Emigrant Gap	Guernsey Reservoir	Antelope Gap
Goose Egg	Guernsey	Wheatland NE
Bishop	Fort Laramie	Register Cliff
Casper	Barnes	
Brookhurst	Lingle (part of quad attached to Barnes quad)	<i>Cheyenne Area</i>
Lockett	Habig Spring (part of quad attached to Cottier quad)	Cheyenne North
Parkerton	Cottier	Cheyenne South
Glenrock	Torrington	Archer
Careyhurst	Torrington SE	Altvan
Orpha	Lyman (quad available from Nebraska District)	
Douglas		
Chalk Buttes		
Irvine		

NORTHEASTERN WYOMING

<i>Tongue River</i> Dayton South Dayton North Wolf Ranchester Monarch Hultz Draw Sheridan Acme <i>Powder River</i> Kaycee Kaycee NE Figure 8 Reservoir Sussex House Creek Soldier Creek Fort Reno Hoe Ranch Bowman Flat Juniper Draw	<i>Powder River—Continued</i> Laskie Draw (part of quad attached to Juniper Draw quad) Sommerville Flats West Sommerville Flats East (part of quad attached to Sommerville Flats West quad) Mitchell Draw Livingston Draw Lariat Arvada Arvada NE Fawn Draw Cabin Creek SE Cabin Creek NE Black Draw Buffalo <i>Belle Fourche River</i> Slaughter Reservoir (originally “The Forks;” quad available from South Dakota District)	<i>Cheyenne River Basin</i> Newcastle Twenty-One Divide (quad available from South Dakota District) Arvada NE Fawn Draw Cabin Creek SE Cabin Creek NE Black Draw Buffalo <i>Belle Fourche River</i> Slaughter Reservoir (originally “The Forks;” quad available from South Dakota District) <i>Cheyenne River Basin</i> Newcastle Twenty-One Divide (quad available from South Dakota District)
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NORTHWESTERN WYOMING

<i>Wind River</i>	<i>Wind River—Continued</i>	<i>Bighorn River—Continued</i>
Dubois	Hudson	Sheep Canyon
Mason Draw	Arapahoe	Spence
Torrey Lake	Arapahoe NE	Alkali Creek (part of quad attached to Spence quad)
Blue Holes	Riverton West	Kane
Wilderness	Riverton East	
Crowheart NW (part of quad attached to Crowheart quad)	Riverton NE (part of quad attached to Riverton East quad)	<i>Shoshone River</i>
Crowheart	Indian Butte	Corbett Dam
Crowheart Butte	Hidden Valley	Vocation
Bull Lake East	Wedding of the Waters	Ralston
Argo Butte		Gilmore Hill NW
Morton	<i>Bighorn River</i>	Gilmore Hill NopdE
Pavillion	Thermopolis	Byron
St. Lawrence Basin	Banjo Flats West	Lovell
Wise Flat	Worland	Lovell Lakes
Fort Washakie	Rairden	Sykes Spring (part of quad attached to Lovell Lakes quad)
Wind River (part of quad attached to Fort Washakie quad)	Ten Sleep	
Ethete	Wild Horse Hill	<i>Snake River</i>
Mule Butte	Hyattville	Gros ventre Junction
Pavillion SE	Weintz Draw	Teton Village
Mount Arter SE	McDermotts Butte	Jackson
Lander	Manderson SE	Cache Creek
Lander SE	Manderson	Camp Davis
Lander NW	Orchard Bench	Munger Mountain
	Greybull South	Pine Creek
	Greybull North	

SOUTHWESTERN WYOMING

<i>Green River</i>	<i>Blacks Fork & Hams Fork</i>	<i>Blacks Fork & Hams Fork— Continued</i>
Warren bridge	Buck Fever Ridge	Church Butte NW
Signal Hill (part of quad attached to Warren Bridge quad)	Meeks Cabin Reservoir	Moxa
Webb Draw	Piedmont Reservoir	Granger
Daniel Junction	Hague Creek	Sevenmile Gulch (part of quad attached to Blue Point quad)
Cora	Robertson	Blue Point
Fremont Lake South	Leavitt Bench	Little America
Pinedale	Guild Hollow	Bryan
Mt. Airy	Ragan	
Daniel	Leroy	
Mesa Spring	Fort Bridger	<i>Henrys Fork</i>
Ross Butte	Mountain View	Table Mountain
Big Piney East	Turtle Hill	Lonetree
Big Piney West	Little Dee Creek	Burntfork
Milleson Draw	Meadow Draw	McKinnon
LaBarge SE (part of quad attached to LaBarge quad)	Bridger	Antelope Wash
LaBarge	Carter	
Names Hill	Austin Reservoir	<i>Bear River</i>
Fontenelle Reservoir SE	Millersville	Myers Reservoir
Fontenelle	Bell Butte NE	Sulphur Springs Reservoir
McCullen Bluff	Warfield Creek	Millis
Thoman School	Bell Butte	Evanston
Lombard Buttes	Elkol SW	Murphy Ridge
Big Island Bridge	Cumberland Gap	Neponset Reservoir NE
Stevens Flat	Mulkay Spring	Sawtooth Mountain
Austin Ranch	Hampton	Woodruff Narrows
Peru	Church Butte	Rex Peak
Green river	Verne	Leefe
Reliance	Elkol	South Lake
Rock Springs	Little Round Mountain	Cokeville
Kanda	Willow Springs	Nugent Park
	Opal	Marse
	Cow Hollow Creek	Border (quad available from Utah District)